# 2SC2631

# Silicon NPN epitaxial planer type

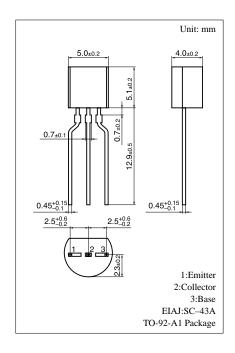
For low-frequency high breakdown voltage amplification Complementary to 2SA1123

#### Features

- Satisfactory linearity of forward current transfer ratio h<sub>FE</sub>.
- High collector to emitter voltage V<sub>CEO</sub>.
- Small collector output capacitance C<sub>ob</sub>.

### Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Collector to base voltage	$V_{CBO}$	150	V
Collector to emitter voltage	$V_{CEO}$	150	V
Emitter to base voltage	$V_{EBO}$	5	V
Peak collector current	$I_{CP}$	100	mA
Collector current	$I_{C}$	50	mA
Collector power dissipation	$P_{C}$	750	mW
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	$T_{\rm stg}$	<b>−55 ~ +150</b>	°C



# Electrical Characteristics (Ta=25°C)

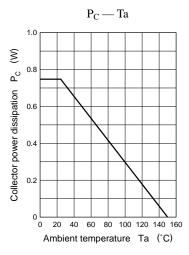
Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	$I_{CBO}$	$V_{CB} = 100V, I_{E} = 0$			1	μΑ
Collector to emitter voltage	V <sub>CEO</sub>	$I_{\rm C} = 0.1  {\rm mA},  I_{\rm B} = 0$	150			V
Emitter to base voltage	V <sub>EBO</sub>	$I_E = 10 \mu A, I_C = 0$	5			V
Forward current transfer ratio	h <sub>FE</sub> *	$V_{CE} = 5V, I_{C} = 10mA$	130		330	
Collector to emitter saturation voltage	V <sub>CE(sat)</sub>	$I_C = 30\text{mA}, I_B = 3\text{mA}$			1	V
Transition frequency	$f_T$	$V_{CB} = 10V, I_E = -10mA, f = 200MHz$		160		MHz
Collector output capacitance	C <sub>ob</sub>	$V_{CB} = 10V, I_E = 0, f = 1MHz$			3	pF
Noise voltage	NV	$V_{CE} = 10V, I_C = 1mA, G_V = 80dB$ $R_g = 100k\Omega, Function = FLAT$		150	300	mV

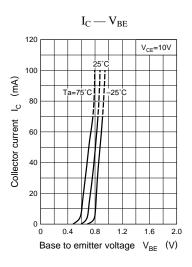
## \*hFE Rank classification

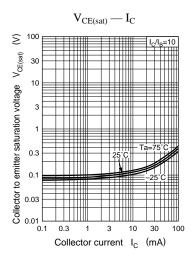
Rank	R	S
h <sub>FE</sub>	130 ~ 220	185 ~ 330

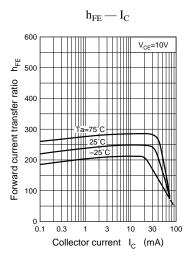
Panasonic 359

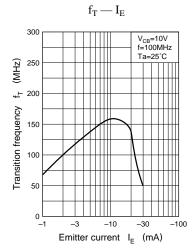
Transistor 2SC2631

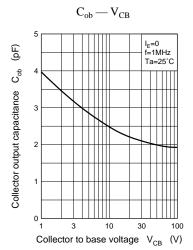












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